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DATE MAILED: 02/02/2007

NOTICE OF ALLOWANCE AND FEE(S) DUE

02/02/2007

BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610

EXAMINER COLEMAN, ERIC ART UNIT PAPER NUMBER 2183

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/858,308	05/15/2001	Zahid Najam	10736/9	3090

TITLE OF INVENTION: APPARATUS AND METHOD FOR INTERCONNECTING A PROCESSOR TO CO-PROCESSORS USING SHARED

MEMORY

	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
*	nonprovisional	NO	\$1400	\$300	\$0	\$1700	05/02/2007

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

'THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown
- B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.
- II. PART B FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

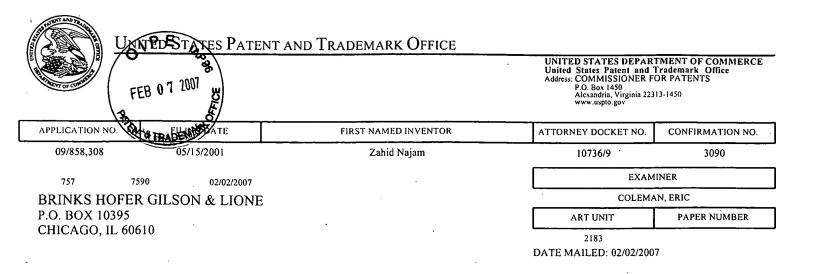
IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

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INSTRUCTIONS: This appropriate to further indicated unless said maintenance fee notifications.	earbelow or directed off	for transmitting the ISSU ng the Patent, advance of nerwise in Block 1, by (a	JE FEE and PUBLIC rders and notification a) specifying a new co	ATION FEE (if requ of maintenance fees v rrespondence address	nired). Bl will be n ; and/or	locks 1 through 5 shailed to the current (b) indicating a separate	hould be completed where correspondence address as trate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			1	Fce(s) Transmittal. Th	nis certifical paper,	cate cannot be used f such as an assignme	r domestic mailings of the or any other accompanying nt or formal drawing, must
BRINKS HOF P.O. BOX 1039 CHICAGO, IL (ER GILSON & L	//2007 IONE		Cer I hereby certify that the States Postal Service vaddressed to the Mai transmitted to the USP	rtificate on the sufficient of	of Mailing or Trans) Transmittal is being icient postage for firs SSUE FEE address) 273-2885, on the d	mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
			ſ				(Depositor's name)
-	•						(Signature)
	•		[(Date)
APPLICATION NO.	FILING DATE	<u> </u>	FIRST NAMED INVENT	OR	ATTOR	NEY DOCKET NO.	CONFIRMATION NO.
09/858,308	05/15/2001		Zahid Najam		•	10736/9	3090
TITLE OF INVENTIO MEMORY	ON: APPARATUS AND	METHOD FOR INTE	ERCONNECTING A	PROCESSOR TO C	O-PROC	CESSORS USING	SHARED
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	JE PREV. PAID ISSU	E FFE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$0	ETEE	\$1700	05/02/2007
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	AN, ERIC	2183	712-034000			·	
CFR_1.363).	ence address or indication	`		ne patent front page, li		ve l	
	ondence address (or Cha B/122) attached.		(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a				
PTO/SB/47; Rev 03-0 Number is required.	lication (or "Fee Address' 02 or more recent) attach	"Indication form ed. Use of a Customer	2 registered attorney listed, no name will	or agent) and the nam attorneys or agents. If be printed.	nes of up	to s is 3	
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON T	THE PATENT (print or	· type)		*	
PLEASE NOTE: Un recordation as set fort	less an assignce is identi th in 37 CFR 3.11. Comp	ified below, no assignce pletion of this form is NO	data will appear on th	e patent. If an assign	nee is ide	entified below, the de	ocument has been filed for
(A) NAME OF ASSI				ITY and STATE OR (,
Please check the appropr	iate assignce category or	categories (will not be pr	inted on the patent):	☐ Individual ☐ C	orporatio	n or other private gro	oup entity Government
4a. The following fee(s)	are submitted:	41	o. Payment of Fec(s): (I	lease first reapply a	nv previ	ously paid issue fee	shown above)
☐ Issue Fee			A check is enclose				,
	No small entity discount p			card. Form PTO-2038			
☐ Advance Order -	# of Copies		The Director is her overpayment, to D	eby authorized to cha- eposit Account Numb	rge the re	equired fec(s), any de (enclose au	ficiency, or credit any n extra copy of this form).
5. Change in Entity Sta	tus (from status indicated	i above)	·	· · · · · · · · · · · · · · · · · · ·			
* *	s SMALL ENTITY statu		☐ b. Applicant is no				(0)
NOTE: The Issue Fee an nterest as shown by the	d Publication Fee (if requeecords of the United Sta	uired) will not be accepted tes Patent and Trademark	d from anyone other the Office.	an the applicant; a reg	istered at	torney or agent; or th	e assignee or other party in
Authorized Signature				Date			
		,		Registration N	No	,	
This collection of inform in application. Confiden submitting the complete	nation is required by 37 C tiality is governed by 35 d application form to the	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary	on is required to obtain 1.14. This collection is depending upon the in	or retain a benefit by the estimated to take 12 adividual case. Any co	the public minutes to mments	c which is to file (and to complete, includin on the amount of tir	by the USPTO to process) g gathering, preparing, and ne you require to complete

this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 459 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 459 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.



 Application No.	Applicant(s)
09/858,308	NAJAM ET AL.
Examiner	Art Unit
Eric Coleman	2183

	Eric Coleman	2183	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	plication. If not include will be mailed in due	ed course. THIS
1. X This communication is responsive to amendment filed 11/1	<u>17/06</u> .		
2. ⊠ The₅allowed claim(s) is/are <u>1-7,9-17,19-30 and 32-45</u> .			
3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the:			
1. ☐ Certified copies of the priority documents have			
2. Certified copies of the priority documents have	· · · · · · · · · · · · · · · · · · ·	•	
3. Copies of the certified copies of the priority do	cuments have been received in this	national stage applica	tion from the
International Bureau (PCT Rule 17.2(a)).		•	
* Certified copies not received:	·		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the re-	quirements
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 	itted. Note the attached EXAMINER es reason(s) why the oath or declara	d'S AMENDMENT or Nation is deficient.	OTICE OF
 CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date 	on's Patent Drawing Review (PTO	·	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the drawi he header according to 37 CFR 1.121(ngs in the front (not the	back) of
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 	sit of BIOLOGICAL MATERIAL (FOR THE DEPOSIT OF BIOLOGIC	must be submitted. I AL MATERIAL.	Note the
		•	
Attachment(s)			
1. Notice of References Cited (PTO-892)	5. Notice of Informal F	* *	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ⊠ Interview Summary Paper No./Mail Da		
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. ⊠ Examiner's Amend		
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. Examiner's Statement	ent of Reasons for Allo	wance
	9. Other	Tui hi	
		Eric Coleman Primary Examiner	

Application/Control Number: 09/858,308

Art Unit: 2183

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Pursuant to MPEP 1302.04 the specification has been amended as follows:

In page 1 (paragraph 0002, line 1) after "Ser. No." insert -09/858309--;

In page 1 (paragraph 0002, line 3) after "herewith" insert – now U.S. Patent No. 7,032,031--;

In page 1 (paragraph 0003, line 1) after "Ser. No." insert -09/858323--;

In page 1 (paragraph 0003), line 3) after "herewith" insert -- now U.S. Patent No. 7,114,008--;

In page 1 (paragraph 0004, line 1) after "Ser. No." insert -09/858324--;

In page 1 (paragraph 0004, line 4) after "herewith" insert -- now U.S. Patent No. 7,082,502--.

Authorization for this examiner's amendment was given in a telephone interview with James L. Katz on January 29,2007.

The application has been amended as follows: In the claims:

In claim 34, (line 12) after "wherein said" insert –first--;

In claim 34 (line 12) after "and said" delete "co-processor" and replace therewith --second processor--.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric Coleman whose telephone number is (571) 272-4163. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Chan can be reached on (571) 272-4162. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

EC

ERIC COLEMAN
PRIMARY EXAMINED

	OIPE 40	Application No.	Applicant(s)				
Interview Summarv	FEB 07 2007 g	09/858,308	NAJAM ET AL.				
interview Summary		Examiner	Art Unit				
\	A. S.	Eric Coleman	2183				
All participants (applicant, applicant's representative, PTO personnel):							
(1) <u>Eric Coleman</u> .		(3)					
(2) <u>James L. Katz (Reg.No. 42,711)</u> .		(4)					
Date of Interview: 29 January 2007.							
Type: a)⊠ Telephonic b)⊡ Video c)⊡ Personal [copy given to: 1		2)∏ applicant's representative	e]				
Exhibit shown or demonstration conducte If Yes, brief description:	d: d)☐ Yes	e)⊠ No.					
Claim(s) discussed: <u>34</u> .							
Identification of prior art discussed: <u>NA</u> .							
Agreement with respect to the claims f)⊠	was reached. g) was not reached. h) 1 ∩	N/A.				
Substance of Interview including description reached, or any other comments: Counse cure a possible 112 second paragraph procondition for allowance. (A fuller description, if necessary, and a callowable, if available, must be attached allowable is available, a summary thereof	el and Examiner of oblem to be imple opposed the amend Also, where no contact and the second	iscussed claim 34 and both a emented by Examiners amend ments which the examiner agopy of the amendments that we	agreed to a claim change to change to a claim ch				
THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.							
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		_					
		Zuí i	fl				
Examiner Note: You must sign this form unles Attachment to a signed Office action.	ss it is an	Examiner's sign	nature, if required				

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner.
 - (The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

TUTS. DEPARTMENT OF COMMERCE COMMISSIONER FOR PATENTS P.O. BOX 1450

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